

AMENDMENTS TO THE SPECIFICATION

1. Please amend the Field of invention paragraph on page 1 as follows:

Field of the invention

The present invention relates to biodegradable chewing gum ~~according to claim 1.~~

2. Please amend the first full paragraph on page 2 as follows

The invention relates to chewing gum comprising at least one biodegradable polymer, wherein the molecular weight of said at least one polymer is at least ~~105.000~~ 105,000 g/mol (Mn).

3. Please amend the fourth full paragraph on page 4 as follows

In an embodiment of the invention the polydispersity of said at least one biodegradable polymer is within the range of 1 to ~~2,5~~ 2.5 (2½).

4. Please amend the paragraph that spans pages 6-7 as follows:

In an embodiment of the invention, said active ingredients are selected from the group of: Acetaminophen, ~~Acetylsalicylsyre~~ Acetylsalicylic acid, Buprenorphine, Bromhexin, Celcoxib, Codeine, Diphenhydramin, Diclofenac, Etoricoxib, Ibuprofen, Indometacin, Ketoprofen, Lumiracoxib, Morphine, Naproxen, Oxycodon, Parecoxib, Piroxicam, ~~Pseudoefedrin~~, Rofecoxib, Tenoxicam, Tramadol, Valdecoxib, Calciumcarbonat, Magaldrate, Disulfiram, Bupropion, Nicotine, Azithromycin, Clarithromycin, Clotrimazole, Erythromycin, Tetracycline, Granisetron, Ondansetron, Prometazin, Tropisetron, Brompheniramine, Ceterizin, Ieco-Ceterizin, Chlorcyclizine, Chlorpheniramin, Chlorpheniramin, Difenhydramine, Doxylamine, Fenofenadin, Guaifenesin, Loratidin, des-Loratidin, Phenyltoloxamine, Promethazin, Pyridamine, Terfenadin, Troxerutin, Methyldopa, Methylphenidate, Benzalcon. Chloride, Benzeth.

Chloride, Cetylpyrid. Chloride, Chlorhexidine, Ecabet-sodium, Haloperidol, Allopurinol, Colchicine, Theophylline, Propanolol, Prednisolone, Prednisone, Fluoride, Urea, Miconazole, Actot, Glibenclamide, Glipizide, Metformin, Miglitol, Repaglinide, Rosiglitazone, Apomorphin, Cialis, Sildenafil, Vardenafil, Diphenoxylate, Simethicone, Cimetidine, Famotidine, Ranitidine, Ratinidine, cetirizin, Loratadine, Aspirin, Benzocaine, Dextrometorphan, Ephedrine, Phenylpropanolamine, Pseudoephedrine, Cisapride, Domperidone, Metoclopramide, Acyclovir, Dioctylsulfosucc., Phenolphthalein, Almotriptan, Eletriptan, Ergotamine, Migea, Naratriptan, Rizatriptan, Sumatriptan, Zolmitriptan, Aluminium salts, Calcium salts, Ferro salts, Silver salts, Zinc-salte, Amphotericin B, Chlorhexidine, Miconazole, Triamcinolonacetoneid, Melatonine, Phenobarbitol, Caffeine, Benzodiazepiner, Hydroxyzine, Meprobamate, Phenothiazine, Buclizine, Brometazine, Cinnarizine, Cyclizine, Difenhydramine, Dimenhydrinate, Buflomedil, Amphetamine, Caffeine, Ephedrine, Orlistat, Phenylephedrine, Phenylpropanolamine, Pseudoephedrine, Sibutramin, Ketoconazole, Nitroglycerin, Nystatin, Progesterone, Testosterone, Vitamin B12, Vitamin C, Vitamin A, Vitamin D, Vitamin E, Pilocarpin, Aluminiumaminoacetate, Cimetidine, Esomeprazole, Famotidine, Lansoprazole, Magnesiumoxide, Nizatide and/or Ratinidine or derivatives and mixtures thereof.

5. Please amend the paragraph on page 12, lines 18-25 as follows:

Drawings

The invention will now be described with reference to the drawings of which

fig. 1 illustrates G' (storage modulus) versus oscillation torque for chewing gums 1002, 1003 and ~~1004~~ 1005, all containing 3% lecithin and where

fig. 2 illustrates $\tan(\delta)$ versus oscillation torque for chewing gums 1002, 1003 and ~~1004~~ 1005, all containing 3% ~~lecithin~~, lecithin.

6. Please amend the paragraph that spans pages 12-13 as follows:

In the present context the terms environmentally or biologically degradable polymer compounds refers to chewing gum base components which, after dumping the chewing gum, is capable of undergoing a physical, chemical and/or biological degradation whereby the dumped chewing gum waste becomes more readily removable from the site of dumping or is eventually disintegrated to lumps or particles which are no longer ~~recognisable~~ recognizable as being chewing gum remnants. The degradation or disintegration of such degradable polymers can be effected or induced by physical factors such as temperature, light, moisture, by chemical factors such as hydrolysis caused by a change in pH or by the action of enzymes capable of degrading the polymers. In other useful embodiments all of the polymer components of the gum base are environmentally degradable or biodegradable polymers.

7. Please amend the paragraph on page 13, lines 20-29 as follows:

Accordingly, suitable examples of additional environmentally or biologically degradable chewing gum base polymers which can be applied in accordance with the gum base of the present invention include degradable polyesters, polycarbonates, polyester amides, polypeptides, homopolymers of amino acids such as polylysine, and proteins including derivatives hereof such as e.g. protein hydrolysates including a zein hydrolysate. Particularly useful compounds of this type include polyester polymers obtained by the ~~polymerisation~~ polymerization of one or more cyclic esters such as lactide, glycolide, trimethylene carbonate, δ -valerolactone, β -propiolactone and ϵ -caprolactone. Such degradable polymers may be homopolymers or copolymers, including block-polymers.

8. Please amend the first full paragraph on page 18 as follows:

HMWE elastomer is added to a mixing kettle provided with mixing means like e.g. horizontally placed Z-shaped arms. The kettle had been preheated for 15 ~~minutes~~

minutes to a temperature of about 60-80°C. The rubber is broken into small pieces and softened with mechanical action on the kettle.

9. Please amend the fifth full paragraph on page 20 as follows:

Chewing gum formulation 1007 was made with a biodegradable gumbase 105, where a polymer with Mn of ~~350,000~~ 350,000 was used (EXAMPLE 5). When adding 3% lecithin the texture is harder but acceptable

10. Please amend the paragraph on page 21, lines 8-10 as follows:

1003 is a 100% biodegradable formulation containing elastomer polymer Mn of 65,000 and ~~1004~~ 1005 is a 100% biodegradable formulation containing elastomer polymer with Mn of 114,000.

11. Please amend the paragraph on page 21, lines 8-10 as follows:

The results are ~~summarised~~ summarized in fig.1 and fig. 2, and as it appears, the biodegradable formulations containing 3% lecithin show different rheological behavior. The low Mn of 65,000 (1003) is very soft and less elastic compared to the formulation with high Mn (~~1004~~ 1005).

AMENDMENTS TO THE FIGURES

Please replace Fig. 1 and Fig. 2 with the attached replacement figures. An amendment has been made in each figure to replace the label “1004” with “1005”.